IN THE CLAIMS

1-43. (canceled)

44. (currently amended) A medical implant apparatus, comprising:

a receiver member having a longitudinal axis and defining an upper opening portion and a lower opening portion, a channel transverse to and communicating with said upper opening portion, and an interior groove in said member substantially perpendicular to said axis, said lower opening portion being cylindrical and having a diameter;

a retaining member having an inner dimension and an outer dimension, said outer dimension being larger than said lower opening portion diameter, said retaining member occupying said groove; and

a longitudinal member at least partially within said channel.

- 45. (previously presented) The apparatus of claim 44, wherein said groove communicates with said lower opening portion of said receiver member.
- 46. (previously presented) The apparatus of claim 44, wherein said retaining member is a substantially circular ring member.
- 47. (previously presented) The apparatus of claim 44, wherein said retaining member is a substantially planar member.
- 48. (previously presented) The apparatus of claim 46, wherein said ring member includes a

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Application Ser. No. 10/731,210 Atty Dkt. No. 4002-3460/PC398.08 MAR/12/2007/MON 04:12 PM WEMMH

PAX No. 3176377561

P. 004

gap whereby said ring member can be contracted.

49. (previously presented) The apparatus of claim 44, wherein when said retaining member

is within said groove, said retaining member is substantially immovable in a radial direction.

(previously presented) The apparatus of claim 44, further comprising a bone anchor

having a head within said receiver member, said head having a diameter larger than said inner

dimension of said retaining member.

51. (previously presented) The apparatus of claim 50, wherein said head of said bone anchor

is substantially between said retaining member and said upper opening portion.

(previously presented) The apparatus of claim 50, wherein said retaining member

substantially surrounds a part of said bone anchor.

53. (currently amended) An apparatus for receiving and holding components of a multi-axial

bone anchor system, comprising:

a receiver member defining an upper opening portion and a lower opening portion, a

channel transverse to and communicating with said upper opening portion and said lower

opening portion, and a groove around at least a portion of said lower opening portion, said lower

opening portion having a first cylindrical portion adjoining and above said groove and a second

cylindrical portion adjoining and below said groove; and

a bone anchor member having a head at least partially within said lower opening portion.

FILING WITH REQUEST FOR CONTINUED EXAMINATION

- 54. (previously presented) The apparatus of claim 53, wherein said receiver member includes at least two branches defining said channel, said branches being internally threaded with reverse-angle threads.
- 55. (previously presented) The apparatus of claim 53, further comprising a longitudinal member at least partially within said channel.
- 56. (previously presented) The apparatus of claim 53, further comprising a closure member at least partially within said upper opening portion.
- 57. (previously presented) The apparatus of claim 56, wherein said closure member includes a set screw.
- 58. (previously presented) The apparatus of claim 57, wherein said receiver member includes internal reverse-angle threads, and said set screw included external threads capable of threadable mating with said reverse-angle threads.
- 59-62. (cancelled)
- 63-68. (not entered)
- 69. (new) A medical implant apparatus, comprising:

MAR/12/2007/MON 04:13 PM WEMMH

FAX No. 3176377561

P. 006

a receiver member having a longitudinal axis and defining an upper opening portion and

a lower opening portion, a channel transverse to and communicating with said upper opening

portion, and an interior groove in said receiver member, said groove having an upper limiting

surface and a lower limiting surface, both of said limiting surfaces being substantially

perpendicular to said axis;

a retaining member having an inner dimension and an outer dimension, said retaining

member occupying said groove; and

a longitudinal member at least partially within said channel.

70. (new) The apparatus of claim 69, wherein said upper opening portion is internally

threaded and has an inner crest diameter, and wherein said lower opening portion diameter is

larger than said inner crest diameter.

71. (new) The apparatus of claim 69, wherein said groove is between two cylindrical

portions of said lower opening portion.

72. (new) The apparatus of claim 69, further comprising a bone anchor having a head that is

at least part spherical and a crown member, said apparatus having a locked condition in which

said anchor head contacts said retaining member and said crown member but not said receiver

member.

73. (new) A medical implant apparatus, comprising:

FILING WITH REQUEST FOR CONTINUED EXAMINATION

/MAR/12/2007/MON 04:13 PM WEMMH

PAX No. 3176377561

P. 007

a receiver member having a longitudinal axis and defining an upper opening portion and

a lower opening portion, a channel transverse to and communicating with said upper opening

portion, and an interior groove in said lower opening portion, wherein said lower opening portion

is substantially cylindrical and has a diameter, and said groove has a groove diameter, and said

groove diameter is larger than said lower opening portion diameter;

a retaining member having an inner dimension and an outer dimension, said retaining

member occupying said groove; and

a longitudinal member at least partially within said channel.

74. (new) The apparatus of claim 73, wherein said upper opening portion is internally

threaded and has an inner crest diameter, and wherein said lower opening portion diameter is

larger than said inner crest diameter.

75. (new) The apparatus of claim 73, wherein said groove is between two cylindrical

portions of said lower opening portion.

76. (new) The apparatus of claim 73, further comprising a bone anchor having a head that is

at least part spherical and a crown member, said apparatus having a locked condition in which

said anchor head contacts said retaining member and said crown member but not said receiver

member.

FILING WITH REQUEST FOR CONTINUED EXAMINATION